



## Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Texas

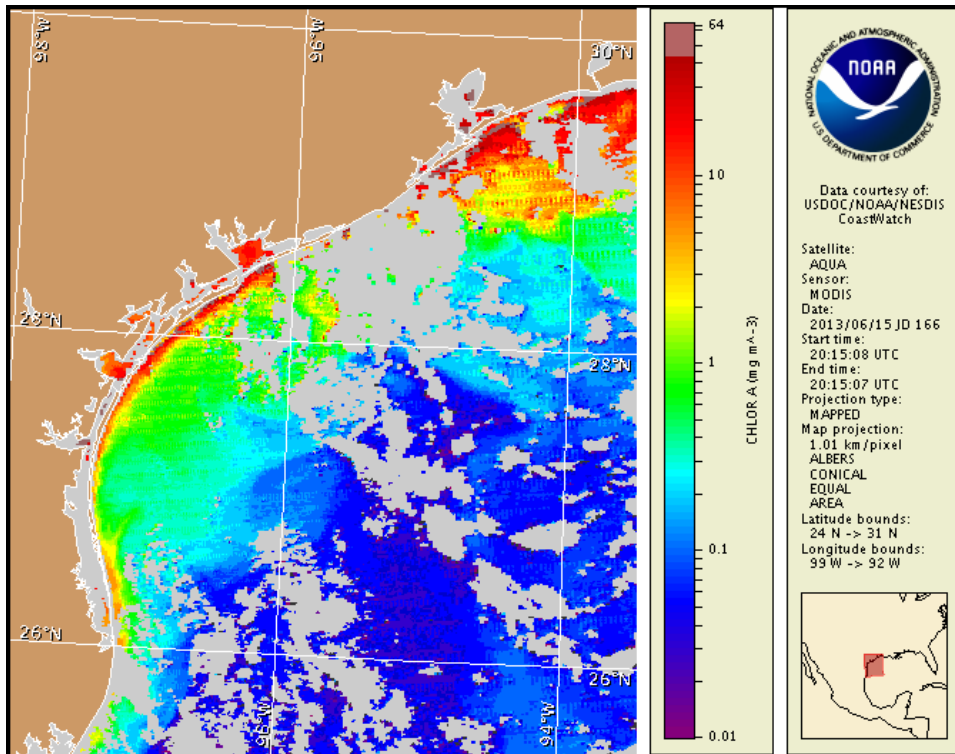
Monday, 17 June 2013

NOAA National Ocean Service

NOAA Satellite and Information Service

NOAA National Weather Service

Last bulletin: Monday, June 10, 2013



Satellite chlorophyll image with possible *K. brevis* HAB areas shown by red polygon(s), when applicable. Points represent cell concentration sampling data from June 7 to 12: red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Texas Parks and Wildlife Department. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

[http://tidesandcurrents.noaa.gov/hab/habfs\\_bulletin\\_guide.pdf](http://tidesandcurrents.noaa.gov/hab/habfs_bulletin_guide.pdf)

Detailed sample information can be obtained through the Texas Parks and Wildlife Department at:

<http://www.tpwd.state.tx.us/landwater/water/enviroconcerns/hab/redtide/status.phtml>

To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit the NOAA Harmful Algal Bloom Operational Forecast System bulletin archive:

<http://tidesandcurrents.noaa.gov/hab/bulletins.html>

## Conditions Report

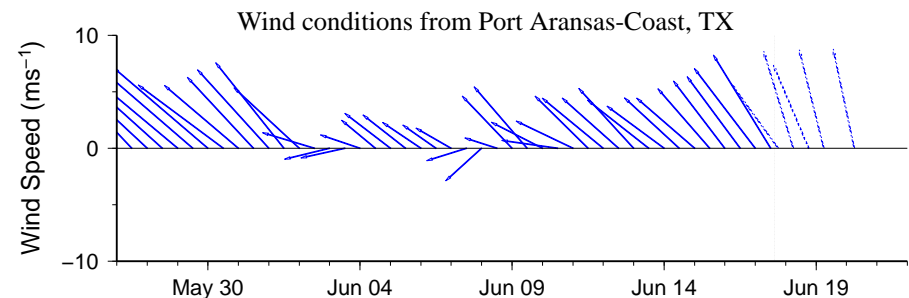
There is currently no indication of a harmful algal bloom of *Karenia brevis* (commonly known as Texas red tide) at the coast in Texas. No respiratory impacts are expected alongshore the Texas coast today through Monday, June 24. There is currently a bloom of the algae *Aureocumbra lagunensis* in the upper Laguna Madre and North Padre Island regions. This algae does not produce respiratory impacts associated with the Texas red tide caused by *Karenia brevis*, but it may cause discolored water and fish kills. For information on area shellfish restrictions, contact the Texas Department of State Health Services.

## Analysis

There is currently no indication of a harmful algal bloom of *Karenia brevis* at the coast in Texas. Recent MODIS Aqua imagery (6/15, shown left) is partially obscured by clouds along the Texas coast, limiting analysis. Patches of elevated to very high chlorophyll (5 to > 20  $\mu\text{g/L}$ ) are visible along- and offshore the Texas coastline from Sabine Pass to San Luis Pass, and from the Matagorda Peninsula to Mustang Island regions. Elevated chlorophyll (1 to 5  $\mu\text{g/L}$ ) is also visible in patches along the Padre Island National Seashore and South Padre Island regions. Elevated chlorophyll is not indicative of the presence of *K. brevis* and is most likely due to the resuspension of benthic chlorophyll and sediments along the coast.

Forecast models based on predicted near-surface currents indicate a potential maximum transport of 120 km north from the Port Aransas region from June 15-20.

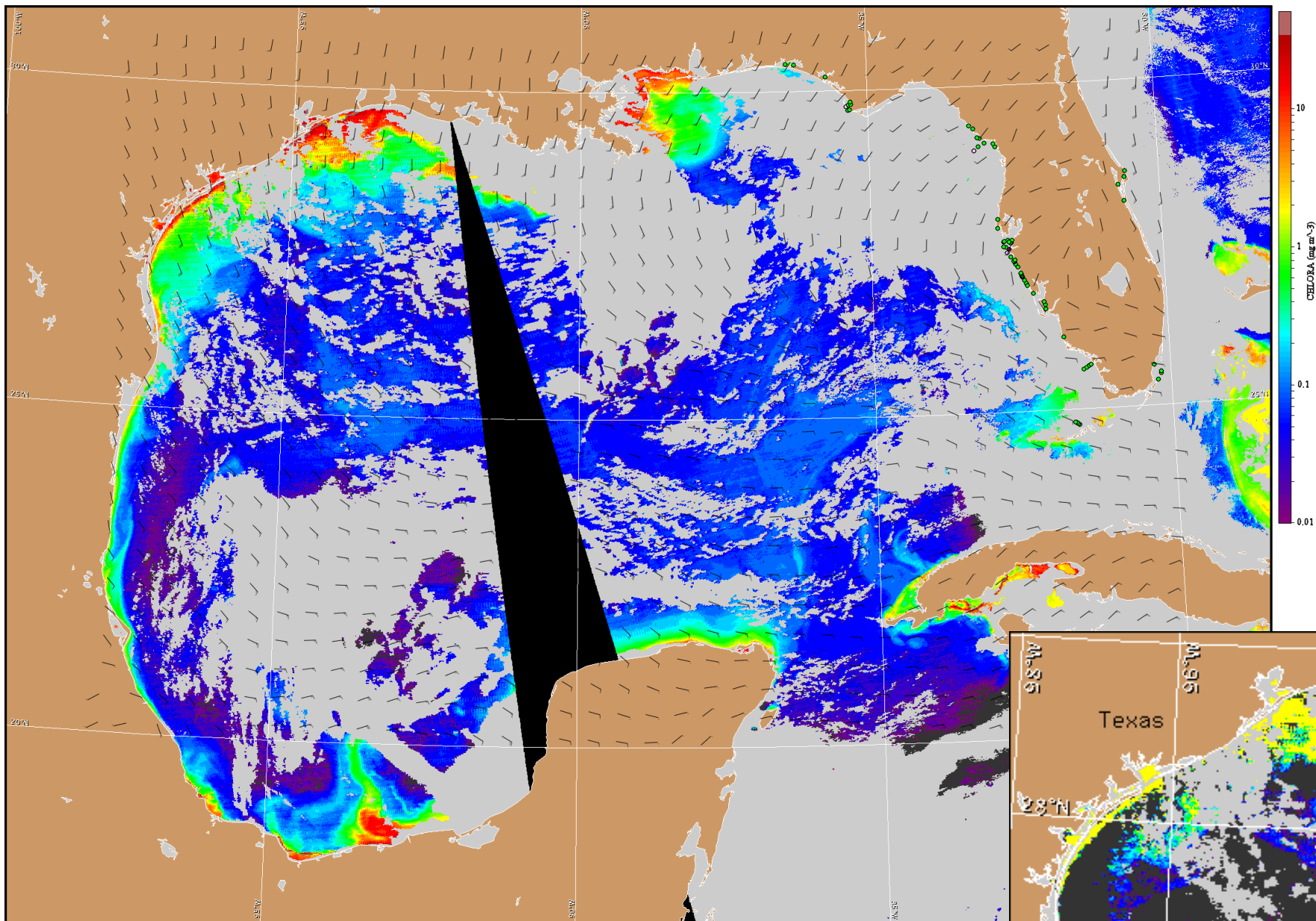
Derner, Yang



Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts. Wind observation and forecast data provided by NOAA's National Weather Service (NWS).

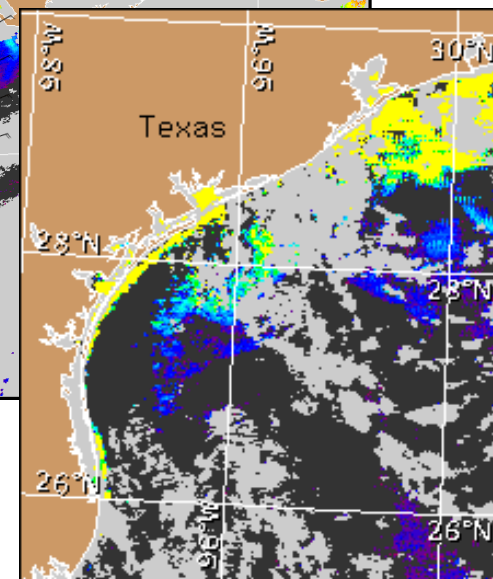
## Wind Analysis

**Port Aransas:** Southeast winds (15-20kn, 8-10m/s) today and tonight. South winds (10-15kn, 5-8m/s) Tuesday becoming southeast (15-20kn) Tuesday afternoon through night. South winds (10-20kn, 5-10m/s) Wednesday becoming southeast (15-20kn) Wednesday night. Southeast winds (10-15kn) Thursday and Friday.



Satellite chlorophyll image and forecast winds for June 18, 2013 06Z with points representing cell concentration sampling data from June 7 to 12: red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Texas Parks and Wildlife Department. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

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Verified and suspected HAB areas shown in red. Other areas of high chlorophyll concentration shown in yellow (see p. 1 analysis for interpretation).